CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-08-02** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-04-17
Sample ID No	:	2017-04-08-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-04-17
Oven Dry Weight(gm)	:	12000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	289	289	2.41	97.6	95-100
22.4	3098	3387	28.23	71.8	60-80
11.2	3165	6552	54.60	45.4	40-60
4.75	2065	8617	71.81	28.2	25-40
2.36	1287	9904	82.53	17.5	15-30
0.6	942	10846	90.38	9.6	8-22
0.075	721	11567	96.39	3.6	0-8

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-08-02** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-04-17
Sample ID No	:	2017-04-08-02/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-04-17
Oven Dry Weight(gm)	:	11500

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	199	199	1.73	98.3	95-100
22.4	3098	3297	28.67	71.3	60-80
11.2	3372	6669	57.99	42.0	40-60
4.75	1809	8478	73.72	26.3	25-40
2.36	1154	9632	83.76	16.2	15-30
0.6	720	10352	90.02	10.0	8-22
0.075	691	11043	96.03	4.0	0-8

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.

All Information Furnished by the customer/Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-08-02** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-04-17
Sample ID No	:	2017-04-08-02/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-04-17
Oven Dry Weight(gm)	:	11350

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	550	550	4.85	95.2	95-100
22.4	3720	4270	37.62	62.4	60-80
11.2	2300	6570	57.89	42.1	40-60
4.75	1715	8285	73.00	27.0	25-40
2.36	1070	9355	82.42	17.6	15-30
0.6	730	10085	88.85	11.1	8-22
0.075	980	11065	97.49	2.5	0-8

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-04** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17
Oven Dry Weight(gm)	:	10500

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	199	199	1.90	98.1	95-100
22.4	3098	3297	31.40	68.6	60-80
11.2	2950	6247	59.50	40.5	40-60
4.75	1609	7856	74.82	25.2	25-40
2.36	1054	8910	84.86	15.1	15-30
0.6	720	9630	91.71	8.3	8-22
0.075	491	10121	96.39	3.6	0-8

Assistant Executive Engineer Vidyaranyapura Sub Division, BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-04** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-04/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17
Oven Dry Weight(gm)	:	11200

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	199	199	1.78	98.2	95-100
22.4	3098	3297	29.44	70.6	60-80
11.2	3272	6569	58.65	41.3	40-60
4.75	1809	8378	74.80	25.2	25-40
2.36	1104	9482	84.66	15.3	15-30
0.6	720	10202	91.09	8.9	8-22
0.075	691	10893	97.26	2.7	0-8

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-04** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-04/03
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	194	194	1.94	98.1	95-100
22.4	3098	3292	32.92	67.1	60-80
11.2	2572	5864	58.64	41.4	40-60
4.75	1609	7473	74.73	25.3	25-40
2.36	954	8427	84.27	15.7	15-30
0.6	720	9147	91.47	8.5	8-22
0.075	691	9838	98.38	1.6	0-8

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-04** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-04/04
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17
Oven Dry Weight(gm)	:	10900

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	210	210	1.93	98.1	95-100
22.4	3098	3308	30.35	69.7	60-80
11.2	3172	6480	59.45	40.6	40-60
4.75	1509	7989	73.29	26.7	25-40
2.36	1154	9143	83.88	16.1	15-30
0.6	720	9863	90.49	9.5	8-22
0.075	691	10554	96.83	3.2	0-8

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.

All Information Furnished by the customer/Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-10-04**	**Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.	
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75	
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-04-17	
Sample ID No	:	2017-04-10-04/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	10-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.7	305.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.6	66.9
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.8	238.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.4
5	Aggregate impact value	(B/A)*100	22.8	21.9
6	Aggregate impact value (Mean of two tests)	Pecentage	22.3	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Note:-
The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-10-04**	**Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.	
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75	
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-04-17	
Sample ID No	:	2017-04-10-04/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	10-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	309.2	308.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.9	64.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	242.8	244.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.3
5	Aggregate impact value	(B/A)*100	21.3	20.8
6	Aggregate impact value (Mean of two tests)	Pecentage	21.1	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-08-02**	**Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.	
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75	
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-04-17	
Sample ID No	:	2017-04-08-02/02	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	08-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	310.2	309.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	67.9	67
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	241.8	242.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	21.9	21.6
6	Aggregate impact value (Mean of two tests)	Pecentage	21.8	

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-08-02** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K. Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore-75
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-04-17
Sample ID No	:	2017-04-08-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	311.6	310.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.6	68.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	241.6	242.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	22.3	22.0
6	Aggregate impact value (Mean of two tests)	Pecentage	22.2	

Assistant Executive Engineer Vidyaranyapura sub Division BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-10-04** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.5%	
Combined Flakiness and Elongation Index for WMM	24.6%	

Assistant Executive Engineer, Vidyaranyapura Sub Division BBMP, Bangalore-97

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-10-04** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-04/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	9.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for WMM	21.5%	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-08-02** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-04-17
Sample ID No	:	2017-04-08-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	14.5%	
Combined Flakiness and Elongation Index for WMM	26.2%	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore-97

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-08-02** **Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-04-17
Sample ID No	:	2017-04-08-02/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.3%	
Combined Flakiness and Elongation Index for WMM	22.0%	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

End of Report

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-04-17-02** **Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-02/02
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	17-04-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	474	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.20	5.40
4	Average percentage	%	5.30	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

Lab ID : **CP-2017-01-07-01** **Date: 09-01-17**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	19	19	96.0	90-100
4.75	250	269	43.2	35-51
2.36	76	345	27.2	24-39
1.18	33	378	20.3	15-30
0.3	53	431	9.1	9-19
0.075	17	448	5.5	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 473

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	27	27	94.3	90-100
4.75	225	252	46.7	35-51
2.36	81	333	29.6	24-39
1.18	45	378	20.1	15-30
0.3	50	428	9.5	9-19
0.075	21	449	5.1	3-8

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

End of Report

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-04-17-02**	**Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-04-17	
Sample ID No	:	2017-04-17-02/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	17-04-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	504	503
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.16	5.17
4	Average percentage	%	5.16	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-2017-01-07-01** **Date: 09-01-17**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 478

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	21	21	95.6	90-100
4.75	261	282	41.0	35-51
2.36	68	350	26.8	24-39
1.18	32	382	20.1	15-30
0.3	43	425	11.1	9-19
0.075	16	441	7.7	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	26	26	94.5	90-100
4.75	225	251	47.4	35-51
2.36	82	333	30.2	24-39
1.18	46	379	20.5	15-30
0.3	54	433	9.2	9-19
0.075	22	455	4.6	3-8

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Note:-
The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

End of Report

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2017-04-13-02** **Date: 17-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-17
Sample ID No	:	2017-04-13-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004), Stripping Value IS:6241-1971((Reaffirmed-2003)
Date of test	:	13-04-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**65**	60 to 70
2	Softening Point, °C	**49.8**	Min. 40°C
3	Ductility, cm	**95**	Min. 75cm
4	Flash point, °C	**230.5**	Min. 220°C
	Fire point, °C	**289**	
5	Stripping Value	**3.0**	Not more than 5%

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore-97

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-04-13-02** **Date: 17-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-17
Sample ID No	:	2017-04-13-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	13-04-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11&500-16
1	Marshal Stability at 60°C, KN	10.38	10.64	8.2KN(min)
2	Marshal flow at 60°C, mm	3.39	3.36	2-4
3	Percent air Voids	4.63	4.38	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.58	14.65	Min 14
5	Percent Voids filled with Bitumen(VFB %)	70.28	69.85	65-75
6	Density, g/cc	2.25	2.26	–

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore-97

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-13-02**	**Date: 17-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalor	
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-04-17	
Sample ID No	:	2017-04-13-02/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	13-04-17	

Result:

Flakiness Index	10.2%
Elongation Index	11.6%
Combined Flakiness & Elongation Index for SDBC	21.8%

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-13-02**	**Date: 17-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidayranyapura Sub Division, BBMP, Bangalor	
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.	
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-04-17	
Sample ID No	:	2017-04-13-02/02	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	13-04-17	

Result:

Flakiness Index	12.6%
Elongation Index	10.1%
Combined Flakiness & Elongation Index for SDBC	22.7%

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-13-02** **Date: 17-04-17**
Customer	:	Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidayranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.
Agency	:	K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/34/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-17
Sample ID No	:	2017-04-13-02/01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	13-04-17
Oven Dry Weight(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	201	201	4.02	96.0	90-100
4.75	2387	2588	51.76	48.2	35-51
2.36	1001	3589	71.78	28.2	24-39
1.18	326	3915	78.30	21.7	15-30
0.3	216	4131	82.62	17.4	9-19
0.075	539	4670	93.40	6.6	3-8
PAN	330	5000	100.00	0.00	0

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID : **CP-RW-2017-04-13-02** **Date: 17-04-17**

Customer : Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.

Address : Vidayranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.

Agency : K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.

Customer Reference : BBMP/EE/BTP/WO/34/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-17

Sample ID No : 2017-04-13-02/01

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 13-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	311.2	310.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.2	65.9
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	241.1	244.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.9	0.7
5	Aggregate impct value	(B/A)*100	22.2	21.2
6	Aggregate impct value (Mean of two tests)		21.7	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.
CIVIL PRO BANGALORE Sig..... Date.....
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID : **CP-RW-2017-04-13-02** **Date: 17-04-17**

Customer : Assistant Executive Engineer, Vidayranyapura Sub Division, BBMP, Bangalore.

Address : Vidayranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance left over road & drains at Ward No 11, Vidyaranyapura Sub Division.

Agency : K.Anil Kumar, #84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd stage, Thippasandra, Bangalore.

Customer Reference : BBMP/EE/BTP/WO/34/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-17

Sample ID No : 2017-04-13-02/01

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 13-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	316.7	316.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	63.6	63.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	252.5	252.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.3
5	Aggregate impct value	(B/A)*100	20.1	20.0
6	Aggregate impct value (Mean of two tests)		20.0	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.

CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |